

## SYMPOSIUM ORGANIZING COMMITTEE

### Chair:

Anna A. Shvedova (ats1@cdc.gov)

### Co-Chair:

Valerian E. Kagan (vkagan@eoh.pitt.edu)

### Secretary General:

Matthew Weaver (mweaver@eoh.pitt.edu)

### Members:

Vincent Castranova, Ph.D., NIOSH (USA)

Andrew D. Maynard, Ph.D., NIOSH, (USA)

Valerian E. Kagan, Ph.D., University of Pittsburgh (USA)

Bruce Pitt, Ph.D., University of Pittsburgh (USA)

Harald F. Krug, Ph.D., Institute of Toxicology and Genetics, (Germany)

Gunter Oberdorster, Ph.D., University of Rochester (USA)

Ken Donaldson, Ph.D., University of Edinburgh (UK)

David Warheit, Ph.D., DuPont Haskell Lab. (USA)

Paul C. Howard, Ph.D. NTCR, FDA, (USA)

Philip Sayre, Ph.D. EPA, (USA)

Hong-Koo Kim, Ph.D., (Nanotechnology Center/University of Pittsburgh, USA)

Vladimir Murashov, Ph.D., NIOSH (USA)

Debasis Bagchi, Ph.D. (InterHealth Neutraceuticals, USA)

Brij Moudgil, Eng. Sc.D., UFL, (USA)

Steve Roberts, Ph.D., UFL, (USA)

Bill Perry, Ph.D., (OSHA, USA)

Seeram Ramakrishna (NUS, Singapore)

## Sponsors

National Institute for Occupational Safety and Health  
(WV, U.S.A.)

University of Pittsburgh (PA, U.S.A.)

Inter Health Neutraceuticals (CA, U.S.A.)

EPA (DC, USA)



**Miami, FL**  
**January 30-February 3**  
**2006**



# International Symposium

Miami, FL  
January 30-February 3  
2006

**First Announcement**

**Nano - Toxicology :**  
**Biomedical Aspects**





**Main Topics:**

**1. Introductory basic information:**

- Unique physico-chemical features of nanostructures
- Characterization of surface structure of nanoparticles

**2. Toxicology of nanoparticles:**

- Are there unique features in responses to nanoparticles?
- Apoptosis/necrosis and cytotoxicity of nanoparticles.
- In vivo toxic responses to nanomaterials.
- Interactions of inflammatory and immune responses and bacterial infection in nanoparticle exposed animals.
- Detection and distribution of nanoparticles in vitro and in vivo.

**3. Toxicity of purified and non-purified nanomaterials, oxidative stress, and antioxidants.**

- Redox properties of nanoparticles.
- Cytokine responses to nanoparticles.
- Antioxidant prevention/mitigation of nanotoxicity.

**4. Tissue specific response to nanoparticles**

**5. Recognition and clearance of nanoparticles**

- Nanoparticles and their cognate receptors on cell surface.
- Manipulations of nanoparticle surface to modulate their recognition and clearance.
- Phagocytosis of nanoparticle.

**Round -Table Discussion**

- Experimental nanotoxicology as the basis for intelligent risk assessment:
- What critical information is lacking to develop adequate risk assessment models?

**Scientific Committee Co-Chairs:**

**Anna Shvedova**..... [ats1@cdc.gov](mailto:ats1@cdc.gov)  
NIOSH/CDC....Morgantown, WV, USA

**Valerian E. Kagan**..... [vkagan@eoh.pitt.edu](mailto:vkagan@eoh.pitt.edu)  
University of Pittsburgh...Pittsburgh, PA, USA

**Invited Speakers:**

- Gunther Oberdorster**.....Rochester, NY, USA  
**Harald Krug** .....Karlsruhe, Germany  
**Paul Born** .....DC Heerlen, Netherlands  
**Brooke Mossman** .....Burlington, VT, USA  
**Ken Donaldson** .....Edinburgh, UK  
**Seeram Ramakrishna** .....Singapore  
**Konstantin Salnikow**.....Frederick, USA  
**Luis Ortiz Freeman** .....Louisville, KE, USA  
**Hong-Koo Kim** .....Pittsburgh, PA,USA  
**Jorg Worle-Knirsch**.....Karlsruhe, Germany  
**Valerian Kagan** .....Pittsburgh, PA, USA  
**Debra Laskin** .....Piscataway, NJ, USA  
**Vincent Castranova**.....Morgantown, WV, USA  
**Clayton Teague** .....Arlington, VA, USA  
**Vicki Stone** .....Edinburgh, UK  
**Brij Moudgil** .....Gainesville, FL,USA  
**Bruce Pitt** .....Pittsburgh, PA, USA  
**Wolfgang Kreyling** .....Munich, Germany  
**Peter Gehr** .....Bern, Switzerland  
**Vyvyan Howard** .....Liverpool, UK  
**H. – Erich Wichmann**.....Neuherberg, Germany  
**Anna Shvedova** .....Morgantown, WV, USA  
**Maria Kadiiska**.....Triangle Park, USA  
**David Warheit** .....Newark, DE, USA  
**Peter Hoet** .....Leuven, Belgium  
**Nancy Monteiro-Riviere** .....Raleigh, NC, USA  
**Jorg Kreuter** .....Frankfurt, Germany  
**Petia Simeonova** .....Morgantown, WV, USA  
**Eva Oberdorster** .....Dallas, TX, USA  
**Tran Lang** .....Edinburgh, UK  
**Debasis Bagchi** .....Benicia, CA,USA  
**Alexander Florence** ..... London, UK

**Nano - Toxicology:  
Biomedical Aspects**



**Miami, FL  
January, 30 – February, 3  
2006**

Prof. \_\_\_\_ Dr. \_\_\_\_ Mr. \_\_\_\_ Ms. \_\_\_\_

Family name \_\_\_\_\_

First name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

Zip Code \_\_\_\_\_ Country \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

- I am interested in participating in the symposium
- I am interested in presenting a scientific communication

**Post, fax, or e-mail to:**

Mr. Matthew Weaver  
Department of Environmental and Occupational Health  
University of Pittsburgh  
3347 Forbes Ave  
Pittsburgh, PA 15261  
Ph: (412) 383-2219  
FAX: (412) 383-2208  
e-mail: [mweaver@eoh.pitt.edu](mailto:mweaver@eoh.pitt.edu)

